ENVIRONMENTAL CHEMISTS

Date of Report: November 27, 1995 Date Received: November 16, 1995

Project: Metro Self Monitor, PO #M51367 Date Samples Extracted: November 21, 1995 Date Extracts Analyzed: November 22, 1995

RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC

Sample Processed Using Method 3005
Samples Analyzed Using Method 6010
Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M 51367	1.1	0.71	0.89	0.07
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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Project: Metro Self Monitor, PO #M51367

QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, ZINC Sample Processed Using Method 3005 Samples Analyzed Using Method 6010

Laboratory Code: KJ63901DUP

	Reporting	Sample	Duplicate	Relative Percent	Acceptance
Analyte:	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	1.1	1.2	9	0-20
Copper	mg/L (ppm)	0.71	0.71	0	0-20
Nickel	mg/L (ppm)	0.89	0.91	2	0-20
Zinc	mg/L (ppm)	0.07	0.06	15	0-20

Laboratory Code: KJ63901MS/KJ63901MD

	Reporting	Spike	Sample	% Red	covery	Acceptance	Relative Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
Chromium	mg/L (ppm)	5	1.1	96	94	80-120	2
Copper	mg/L (ppm)	5	0.71	94	94	80-120	0
Nickel	mg/L (ppm)	10	0.89	96	94	80-120	2
Zinc	mg/L (ppm)	5	0.07	95	97	80-120	2

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	Acceptance Criteria
Analyte.	Omes	Level		Cinteria
Chromium	mg/L (ppm)	5	100	80-120
Copper	mg/L (ppm)	5	102	80-120
Nickel	mg/L (ppm)	10	100	80-120
Zinc	mg/L (ppm)	5	98	80-120

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

November 27, 1995

INVOICE #95ACU1127-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M51367: Results of testing requested by Gerry Thompson, Project Leader for material submitted on November 16, 1995.

TAX: 382-4309

FRIEDMAN & BRUYA, INC.

3077 16th Avenue West Seattle, WA 98119-2029

(200) 285-8282

SAMPLE CHAIN OF CUSTODY

KNJ AI 11.16.95 2.55

Send Report To: Alaskar Copper Works Contact GERAY A. Thompson Address 628 HANSON 187						
City, State, Zip Sentitle und Phone # (206) 362-8379 Date 11-16-95						
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SAMPLERS (signature)			PROJECT LOCATION	NC		
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REMARKS	egg, een e		SAMPLE DISPOSAL INFO	RMATION		
			Dispose after 30 day Return Samples Call for Instructions	S.,		
Date/T Sample # Sampl	at the second of		ab Analyses ple # Requested			
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Remarks by:	Athy Down'n	16 FAB.	I 11/16/95	1:53pm		
Received by:						

POWAS/COC

09/19/94

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282

3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

November 27, 1995

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on November 16, 1995 from your Metro Self Monitor, PO #M51367 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

keh

Enclosures

FAX: 382-7335

ACU1127R.DOC